

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

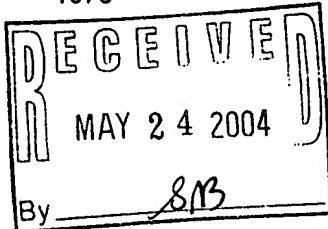


## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPL NO.   | FILING OR 371<br>(c) DATE | ART UNIT | FIL FEE REC'D | ATTY. DOCKET NO | DRAWINGS | TOT CLMS | IND CLMS |
|------------|---------------------------|----------|---------------|-----------------|----------|----------|----------|
| 10/791,854 | 03/04/2004                | 1745     | 1076          | P57016          | 7        | 37       | 3        |

Robert E. Bushnell  
Suite 300  
1522 K Street, N.W.  
Washington, DC 20005



CONFIRMATION NO. 5248

## FILING RECEIPT



\*OC000000012741206\*

Date Mailed: 05/21/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Su-Jin Han, Cheonan-si, JAPAN;  
Chang-Seob Kim, Cheonan-si, KOREA, REPUBLIC OF;  
Yoon-Tai Kwak, Cheonan-si, KOREA, REPUBLIC OF;  
Soo-Youn Maeng, Incheon-si, KOREA, REPUBLIC OF;  
Ju-Hyung Kim, Cheonan-si, KOREA, REPUBLIC OF;

## Domestic Priority data as claimed by applicant

## Foreign Applications

REPUBLIC OF KOREA 2003-32251 05/21/2003

If Required, Foreign Filing License Granted: 05/21/2004

Projected Publication Date: 11/25/2004

Non-Publication Request: No

Early Publication Request: No

## Title

Secondary battery

---

**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



PATENT  
P57016

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Serial No.: 10/791,854                      Examiner: *to be assigned*  
Filed: 4 March 2004                      Unit: 1745  
For: SECONDARY BATTERY

**REQUEST FOR CORRECTED FILING RECEIPT**

**Mail Stop : Application Number**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The attorney for the Applicant notes error in the **First Applicant's Address**.

Please change the country name from "**JAPAN**" to **--KOREA, REPUBLIC OF--**.

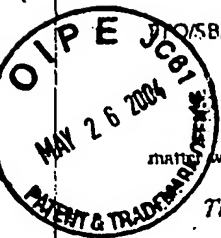
Please re-issue a Corrected Filing Receipt including a correction as mentioned above.

Respectfully submitted,

Robert E. Bushnell  
Attorney for the Applicant  
Reg. No.: 27,774

1522 "K" Street, N.W., Suite 300  
Washington, DC 20005  
(202) 408-9040

Enclosure: copies of Filing Receipt (mailed 05/21/2004), Declaration  
Folio: P57016  
Date: 5/25/04  
I.D.: REB/gc



I, A BELOW NAMED INVENTOR, I hereby declare that:  
My residence, post office address and citizenship are as stated next to my name.  
I believe that I am the original, first and sole (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below), of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Title: SECONDARY BATTERY

the specification of which either is attached hereto or otherwise accompanies this Declaration, or:

☐ was filed in the U.S. Patent & Trademark Office on \_\_\_\_\_ and assigned Serial No. \_\_\_\_\_

☐ and (if applicable) was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability and to the examination of this application in accordance with Title 37 of the Code of Federal Regulations '1.56. I hereby claim foreign priority benefits under Title 35, U.S. Code '119(a)-(d) or '365(b) of any foreign application(s) for patent or inventor's certificate, or '365(a) of any PCT International application which designated at least one country other than the United States, or '119(e) of any United States provisional application(s), listed below and have also identified below any foreign applications for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Priority Claimed:

2003-32251 Republic of Korea 21 May 2003 Yes [ ☒ ] No [ ☐ ]  
(Application Number) (Country) (Day/Month/Year filed)

Yes [ ☐ ] No [ ☐ ]

(Application Number) (Country) (Day/Month/Year filed)

I hereby claim the benefit under Title 35, U.S. Code, '120, of any United States application(s), or '365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of Title 35, U.S. Code, '112, I acknowledge the duty to disclose information material to patentability as defined in Title 37, The Code of Federal Regulations, '1.56(a) which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.) (Filing Date) (STATUS: patented, pending, abandoned)

(Application Serial No.) (Filing Date) (STATUS: patented, pending, abandoned)

I hereby revoke all previously granted powers of attorney and appoint the following attorneys: Robert E. Bushnell, Reg. No. 27,774, Michael D. Parker, Reg. No. 34,973, and Darren R. Crew, Reg. No. 37,806, to prosecute this application and to transact all business in the U.S. Patent & Trademark Office connected therewith and with any divisional, continuation, continuation-in-part, reissue or re-examination application, with full power of appointment and with full power to substitute an associate attorney or agent, and to receive all patents which may issue thereon, and request that all correspondence be addressed to:

Robert E. Bushnell,  
Attorney-at-Law  
Suite 300, 1522 "K" Street, N.W. Payor No. 008439  
Washington, D.C. 20005-1202 Area Code: 202-408-9040

I HEREBY DECLARE that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under '1001 of Title 18 U.S. Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST OR SOLE INVENTOR: Su-Jin Han Citizenship: Republic of Korea

Inventor's signature: S J Han Date: 25 Feb. 2004  
Residence & Post Office Address: 102-1807 Daewoo Apt., 525-1 Dujeong-dong, Cheonan-si,  
Chungcheongnam-do, Republic of Korea

FULL NAME OF FIRST OR SOLE INVENTOR: Chang-Seob Kim Citizenship: Republic of Korea

Inventor's signature: Chang Seob Kim Date: 25 Feb. 2004  
Residence & Post Office Address: 109-601 Daewoo Apt., 525-1, Dujeong-dong, Cheonan-si,  
Chungcheongnam-do, Republic of Korea

FULL NAME OF FIRST OR SOLE INVENTOR: Yoon-Tai Kwak Citizenship: Republic of Korea

Inventor's signature: Yoon Tai Kwak Date: 25 Feb. 2004  
Residence & Post Office Address: Rm. 302 Hwashin oneroom, 12-1 Seongjeong-dong, Cheonan-si,  
Chungcheongnam-do, Republic of Korea

FULL NAME OF FIRST OR SOLE INVENTOR: Soo-Young Maeng Citizenship: Republic of Korea

Inventor's signature: S.Y. Maeng Date: 25 Feb. 2004

Residence & Post Office Address: 202-402 Woosung Apt., Ganseok4-dong, Namdong-gu,  
Incheon-si, Republic of Korea

FULL NAME OF FIRST OR SOLE INVENTOR: Ju-Hyung Kim Citizenship: Republic of Korea

Inventor's signature: JH Kim Date: 25 Feb. 2004

Residence & Post Office Address: 109-409 Jugong Apt., 785 Seongjeong-dong, Cheonan-si,  
Chungcheongnam-do, Republic of Korea



PTO/SB/01 (6/95)

**DECLARATION** (Page 1 of 2)Docket No. P57016

AS A BELOW NAMED INVENTOR, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe that I am the original, first and sole (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below), of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE:

**SECONDARY BATTERY**

the specification of which either is attached hereto or otherwise accompanies this Declaration, or:

☐ was filed in the U.S. Patent & Trademark Office on \_\_\_\_\_ and assigned Serial No. \_\_\_\_\_☐ and (if applicable) was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability and to the examination of this application in accordance with Title 37 of the Code of Federal Regulations §1.56. I hereby claim foreign priority benefits under Title 35, U.S. Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, or §119(e) of any United States provisional application(s), listed below and have also identified below any foreign applications for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

|                      |                          |                        |                   |
|----------------------|--------------------------|------------------------|-------------------|
| <u>2003-32251</u>    | <u>Republic of Korea</u> | <u>21 May 2003</u>     | Priority Claimed: |
| (Application Number) | (Country)                | (Day/Month/Year filed) | Yes [ X ] No [ ]  |
|                      |                          |                        | Yes [ ] No [ ]    |
| (Application Number) | (Country)                | (Day/Month/Year filed) |                   |

I hereby claim the benefit under Title 35, U.S. Code, §120, of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application(s) in the manner provided by the first paragraph of Title 35, U.S. Code, §112, I acknowledge the duty to disclose information material to patentability as defined in Title 37, The Code of Federal Regulations, §1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

|                          |               |  |
|--------------------------|---------------|--|
| (Application Serial No.) | (Filing Date) | (STATUS: patented, pending, abandoned) |
|--------------------------|---------------|--|

I hereby revoke all previously granted powers of attorney and appoint the following attorneys: Robert E Bushnell, Reg. No. 27774, Michael D Parker, Reg. No. 34973, Joseph G Seeber, Reg. No. 27719, Saryadvinder Sahota, Reg. No. 47051, Henry M Zykorie, Reg. No. 27477 and Matthew J Lestina, Reg. No. 44437 to prosecute this application and to transact all business in the U.S. Patent & Trademark Office connected therewith and with any divisional, continuation, continuation-in-part, reissue or re-examination application, with full power of appointment and with full power to substitute an associate attorney or agent, and to receive all patents which may issue thereon, and request that all correspondence be addressed to:

Robert E. Bushnell,  
Attorney-at-Law  
Suite 300, 1522 "K" Street, N.W.  
Washington, D.C. 20005-1202

Payor No. 008439  
Area Code: 202.408.9040

I HEREBY DECLARE that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 U.S. Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST OR SOLE INVENTOR: SU-JIN HAN Citizenship: Republic of KoreaInventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence & Post Office Address: 102-1807 Daewoo Apt., 525-1 Dujong-dong, Cheonan-si, Chungcheongnam-do, Republic of KoreaFULL NAME OF SECOND JOINT INVENTOR: CHANG-SEOB KIM Citizenship: Republic of KoreaInventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence & Post Office Address: 109-601 Daewoo-Apt., 525-1 Dujong-dong, Cheonan-si, Chungcheongnam-do, Republic of KoreaFULL NAME OF THIRD JOINT INVENTOR: YOON-TAI KWAK Citizenship: Republic of KoreaInventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence & Post Office Address: Rm. 302 Hwashin oneroom, 12-1 Seongjeong-dong, Cheonan-si, Chungcheongnam-do, Republic of KoreaFULL NAME OF FOURTH JOINT INVENTOR: SOO-YOUN MAENG Citizenship: Republic of KoreaInventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence & Post Office Address: 202-402 Woosung Apt., Ganseok4-dong, Namdong-gu, Incheon-si, Republic of Korea☐ Additional inventors are being named on separately numbered sheets attached hereto.

# DECLARATION (Page 2 of 2)

Docket No. P57016

FULL NAME OF FIFTH OR SOLE INVENTOR: JU-HYUNG KIM

Citizenship: Republic of Korea

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence & Post Office Address: 109-409 Jugong Apt., 785 Seongjeong-dong, Cheonan-si, Chungcheongnam-do, Republic of Korea

FULL NAME OF SIXTH JOINT INVENTOR: \_\_\_\_\_

Citizenship: \_\_\_\_\_

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence & Post Office Address: \_\_\_\_\_

FULL NAME OF SEVENTH JOINT INVENTOR: \_\_\_\_\_

Citizenship: \_\_\_\_\_

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence & Post Office Address: \_\_\_\_\_

FULL NAME OF EIGHTH JOINT INVENTOR: \_\_\_\_\_

Citizenship: \_\_\_\_\_

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence & Post Office Address: \_\_\_\_\_